

# Real-time access for drifting buoy data – Advanced instructions

To access real-time data from drifting buoys, please visit the NOAA OSMC ERDDAP webpage at [http://osmc.noaa.gov/erddap/tabledap/OSMC\\_30day.html](http://osmc.noaa.gov/erddap/tabledap/OSMC_30day.html). Here, you will see the list of possible variables. Examples include: date ranges, specific regions, sst data, slp data, etc.

1. To begin, select “Uncheck All.”

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Dataset Title: OSMC 30 day RT data  
Institution: OSMC (Dataset ID: OSMC\_30day)  
Information: Summary | License | FGDC | ISO 19115 | Metadata | Background | Subset | Make a graph

Variable ☐ Check All ☒ Uncheck All

☒ platform\_code (WMO id or ship call sign)  
☐ country\_type  
☒ time (observation date, UTC)  
☒ latitude (degrees\_north)  
☒ longitude (degrees\_east)  
☒ observation\_depth  
☒ sst (sea surface temperature, Deg C)  
☒ atmp (air temperature, Deg C)  
☒ precip (precipitation, mm)  
☒ ztmp (profile water temperature, Deg C)  
☒ zsal (profile salinity)  
☒ slp (sea level pressure, hPa)  
☒ windsdp (wind speed, m/s)  
☒ winddir (wind from direction, Deg true)  
☒ wvht (sea surface wave significant height, m)  
☒ waterlevel (m)  
☒ clouds (cloud cover, oktas)  
☒ dewpoint (dew point temperature, Deg C)  
☒ uo (eastward sea water velocity, m s-1)  
☒ vo (northward sea water velocity, m s-1)  
☒ wo (upward sea water velocity, m s-1)  
☒ rainfall\_rate (m s-1)  
☒ hur (relative humidity)  
☒ sea\_water\_elec\_conductivity (S m-1)  
☒ sea\_water\_pressure (dbar)  
☒ rds (surface downwelling longwave flux in air, W m-2)  
☒ rds (surface downwelling shortwave flux in air, W m-2)  
☒ waterlevel\_met\_res (meteorological residual tidal elevation, m)  
☒ waterlevel\_wrt\_lod (tidal elevation WRT local chart datum, m)  
☒ water\_col\_ht (water column height, m)  
☒ wind\_to\_direction (degree)  
☒ lon360 (longitude, degree\_east)

Optional Constraint #1  
Optional Constraint #2  
Minimum or a List of Values  
Maximum

2. Once all boxes are unchecked, within “platform type”, select “DRIFTING BUOYS {GENERIC}” from the pull-down tab on the far right.

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☐ water\_col\_ht (water column height, m)  
☐ wind\_to\_direction (degree)  
☐ lon360 (longitude, degree\_east)

Optional Constraint #1  
Optional Constraint #2  
Minimum or a List of Values  
Maximum

Server-side Functions  
☐ distinct()  
orderBy

3. After selecting “DRIFTING BUOYS” within “platform\_type”, next select the desired variable(s). For example, if you are interested in specific drifters, select “platform\_code”, then enter each WMO number within “platform\_code” “Optional Constraint #1”, ensuring that each ID is within double quotes (“...”) and the operator for this constraint is set to “=”. The operator selection is found to the left of the Optional Constraint field. If you are interested in multiple WMO numbers, ensure they are separated by the pipe or bar symbol (|) and within double quotes (“...”).

For example, a single drifter should appear as: “= “2201545”, while the suitable option for multiple drifters is: “= “32699|4601615|2201545”.

**\*\*Please Note:** There are no spaces between the WMO # and pipe or bar symbol (|). \*\*

The screenshot shows the ERDDAP Data Access Form for the dataset "OSMC 30 day RT data". The "platform\_code" variable is selected, and a red arrow points to the "Optional Constraint #1" field, which contains the value "32699|4601615". The "Optional Constraint #2" field is empty. The "Minimum" and "Maximum" fields are set to -89.0 and 89.0, respectively. The "Variable" list on the left includes "platform\_code", "platform\_type", "country", "time", "latitude", "longitude", "observation\_depth", "sst", "atmp", "precip", "ztmp", "zsal", "slp", "windspd", "winddir", "wvht", "waterlevel", "clouds", "dewpoint", "uo", "vo", "wv", "rainfall\_rate", "hur", "sea\_water\_elec\_conductivity", "sea\_water\_pressure", "rds", "rdsd", "waterlevel\_met\_res", "waterlevel\_wrt\_lod", "water\_col\_ht", "wind\_to\_direction", and "lon360".

If you have multiple drifters and the WMO #'s are in sequential order, enter the first WMO # in “Optional Constraint #1” and the final WMO # in “Optional Constraint #2”. For example, if the desired sequence of WMO #'s includes 4101552, 4101553, 4101554, and 4101555, simply enter “>= “4101552” in “Optional Constraint #1” and “<= “4101555” in “Optional Constraint #2”.

The screenshot shows the ERDDAP Data Access Form for the dataset "OSMC 30 day RT data". The "platform\_code" variable is selected, and two red arrows point to the "Optional Constraint #1" and "Optional Constraint #2" fields. The "Optional Constraint #1" field contains the value ">= 4101552" and the "Optional Constraint #2" field contains the value "<= 4101555". The "Minimum" and "Maximum" fields are set to -89.0 and 89.0, respectively. The "Variable" list on the left is the same as in the previous screenshot.

4. Next, select additional variables from the list, including time, latitude, longitude, SST, and SLP.

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Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values	Maximum
<input type="checkbox"/> platform_code (WMO id or Ship call sign)	>=	<=		
<input checked="" type="checkbox"/> platform_type	=		"DRIFTING BUOYS (GENERIC)"	
<input type="checkbox"/> country	>=	<=		
<input checked="" type="checkbox"/> time (observation date, UTC)	>=	<=		
<input checked="" type="checkbox"/> latitude (degrees_north)	>=	<=	-89.0	89.0
<input checked="" type="checkbox"/> longitude (degrees_east)	>=	<=	-180.0	180.0
<input type="checkbox"/> observation_depth	>=	<=		
<input checked="" type="checkbox"/> sst (sea surface temperature, Deg C)	>=	<=		
<input type="checkbox"/> atmp (air temperature, Deg C)	>=	<=		
<input type="checkbox"/> precip (precipitation, mm)	>=	<=		
<input type="checkbox"/> ztmp (profile water temperature, Deg C)	>=	<=		
<input type="checkbox"/> zsal (profile salinity)	>=	<=		
<input checked="" type="checkbox"/> slp (sea level pressure, hPa)	>=	<=		
<input type="checkbox"/> windspd (wind speed, m/s)	>=	<=		
<input type="checkbox"/> winddir (wind from direction, Deg true)	>=	<=		
<input type="checkbox"/> wvht (sea surface wave significant height, m)	>=	<=		
<input type="checkbox"/> waterlevel (m)	>=	<=		
<input type="checkbox"/> clouds (cloud cover, oktas)	>=	<=		
<input type="checkbox"/> dewpoint (dew point temperature, Deg C)	>=	<=		
<input type="checkbox"/> uo (eastward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> vo (northward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> wo (upward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> rainfall_rate (m s-1)	>=	<=		
<input type="checkbox"/> hur (relative humidity)	>=	<=		
<input type="checkbox"/> sea_water_elec_conductivity (S m-1)	>=	<=		
<input type="checkbox"/> sea_water_pressure (dbar)	>=	<=		
<input type="checkbox"/> rlds (surface downwelling longwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> rsds (surface downwelling shortwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> waterlevel_met_res (meteorological residual tidal elevation, m)	>=	<=		
<input type="checkbox"/> waterlevel_wrt_lcd (tidal elevation WRT local chart datum, m)	>=	<=		
<input type="checkbox"/> water_col_ht (water column height, m)	>=	<=		
<input type="checkbox"/> wind_to_direction (degree)	>=	<=		
<input type="checkbox"/> lon360 (longitude, degree_east)	>=	<=		

**Select desired variables.**

**\*\*Please note: If you desire specific coordinates, and/or a time parameter, you must enter these values in the "Optional Constraint" boxes to right of each field. \*\***

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Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values	Maximum
<input type="checkbox"/> platform_code (WMO id or Ship call sign)	>=	<=		
<input checked="" type="checkbox"/> platform_type	=		"DRIFTING BUOYS (GENERIC)"	
<input type="checkbox"/> country	>=	<=		
<input checked="" type="checkbox"/> time (observation date, UTC)	>=	<=		
<input checked="" type="checkbox"/> latitude (degrees_north)	>=	<=	-89.0	89.0
<input checked="" type="checkbox"/> longitude (degrees_east)	>=	<=	-180.0	180.0
<input type="checkbox"/> observation_depth	>=	<=		
<input checked="" type="checkbox"/> sst (sea surface temperature, Deg C)	>=	<=		
<input type="checkbox"/> atmp (air temperature, Deg C)	>=	<=		
<input type="checkbox"/> precip (precipitation, mm)	>=	<=		
<input type="checkbox"/> ztmp (profile water temperature, Deg C)	>=	<=		
<input type="checkbox"/> zsal (profile salinity)	>=	<=		
<input checked="" type="checkbox"/> slp (sea level pressure, hPa)	>=	<=		
<input type="checkbox"/> windspd (wind speed, m/s)	>=	<=		
<input type="checkbox"/> winddir (wind from direction, Deg true)	>=	<=		
<input type="checkbox"/> wvht (sea surface wave significant height, m)	>=	<=		
<input type="checkbox"/> waterlevel (m)	>=	<=		
<input type="checkbox"/> clouds (cloud cover, oktas)	>=	<=		
<input type="checkbox"/> dewpoint (dew point temperature, Deg C)	>=	<=		
<input type="checkbox"/> uo (eastward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> vo (northward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> wo (upward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> rainfall_rate (m s-1)	>=	<=		
<input type="checkbox"/> hur (relative humidity)	>=	<=		
<input type="checkbox"/> sea_water_elec_conductivity (S m-1)	>=	<=		
<input type="checkbox"/> sea_water_pressure (dbar)	>=	<=		
<input type="checkbox"/> rlds (surface downwelling longwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> rsds (surface downwelling shortwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> waterlevel_met_res (meteorological residual tidal elevation, m)	>=	<=		
<input type="checkbox"/> waterlevel_wrt_lcd (tidal elevation WRT local chart datum, m)	>=	<=		
<input type="checkbox"/> water_col_ht (water column height, m)	>=	<=		
<input type="checkbox"/> wind_to_direction (degree)	>=	<=		
<input type="checkbox"/> lon360 (longitude, degree_east)	>=	<=		

**Coordinate and Time Specifications**

5. Once all desired variables have been chosen, for best output results, under “Server-side Functions”, order variables by “platform\_code” and “time”. By doing so, the output will be displayed by WMO number and time (chronologically).

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Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values	Maximum
<input type="checkbox"/> platform_code (WMO id or Ship call sign)	>=	<=		
<input checked="" type="checkbox"/> platform_type	= "DRIFTING BUOYS (GENE"	<=	"DRIFTING BUOYS (GENERIC)"	
<input type="checkbox"/> country	>=	<=		
<input checked="" type="checkbox"/> time (observation date, UTC)	>=	<=		
<input checked="" type="checkbox"/> latitude (degrees_north)	>= 20	<= 30	-89.0	89.0
<input checked="" type="checkbox"/> longitude (degrees_east)	>= -70	<= -60	-180.0	180.0
<input type="checkbox"/> observation_depth	>=	<=		
<input checked="" type="checkbox"/> sst (sea surface temperature, Deg C)	>=	<=		
<input type="checkbox"/> atmp (air temperature, Deg C)	>=	<=		
<input type="checkbox"/> precip (precipitation, mm)	>=	<=		
<input type="checkbox"/> ztmp (profile water temperature, Deg C)	>=	<=		
<input type="checkbox"/> zsal (profile salinity)	>=	<=		
<input checked="" type="checkbox"/> slp (sea level pressure, hPa)	>=	<=		
<input type="checkbox"/> windsdp (wind speed, m/s)	>=	<=		
<input type="checkbox"/> winddir (wind from direction, Deg true)	>=	<=		
<input type="checkbox"/> wvht (sea surface wave significant height, m)	>=	<=		
<input type="checkbox"/> waterlevel (m)	>=	<=		
<input type="checkbox"/> clouds (cloud cover, oktas)	>=	<=		
<input type="checkbox"/> dewpoint (dew point temperature, Deg C)	>=	<=		
<input type="checkbox"/> uo (eastward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> vo (northward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> wo (upward sea water velocity, m s-1)	>=	<=		
<input type="checkbox"/> rainfall_rate (m s-1)	>=	<=		
<input type="checkbox"/> hur (relative humidity)	>=	<=		
<input type="checkbox"/> sea_water_elec_conductivity (S m-1)	>=	<=		
<input type="checkbox"/> sea_water_pressure (dbar)	>=	<=		
<input type="checkbox"/> rids (surface downwelling longwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> rsds (surface downwelling shortwave flux in air, W m-2)	>=	<=		
<input type="checkbox"/> waterlevel_met_res (meteorological residual tidal elevation, m)	>=	<=		
<input type="checkbox"/> waterlevel_wrt_lcd (tidal elevation WRT local chart datum, m)	>=	<=		
<input type="checkbox"/> water_col_ht (water column height, m)	>=	<=		
<input type="checkbox"/> wind_to_direction (degree)	>=	<=		
<input type="checkbox"/> lon360 (longitude, degree_east)	>=	<=		

**Server-side Functions**

☐ distinct()

orderBy: ☐ platform\_code ☒ time

**File type:** ☐ Table - View a .html web page with the data in a table. Times are ISO 8601 strings. [more info](#)  
Just generate the URL: [http://osmc.noaa.gov/erddap/tabledap/OSMC\\_30day.html?platform\\_type%2Ctime%2Clat](http://osmc.noaa.gov/erddap/tabledap/OSMC_30day.html?platform_type%2Ctime%2Clat) [Documentation / Bypass this form](#)

**Submit:** (Please be patient. It may take a while to get the data.)

6. To select the desired output format, select from the options within “File type”.

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Variable	Optional Constraint #1	Optional Constraint #2	Minimum or a List of Values	Maximum
<input type="checkbox"/> platform_code (WMO id or Ship call sign)	>=	<=		
<input checked="" type="checkbox"/> platform_type	= "DRIFTING BUOYS (GENE"	<=	"DRIFTING BUOYS (GENERIC)"	
<input type="checkbox"/> country	>=	<=		
<input checked="" type="checkbox"/> time (observation date, UTC)	>=	<=		
<input checked="" type="checkbox"/> latitude (degrees_north)	>= 20	<= 30	-89.0	89.0
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<input type="checkbox"/> water_col_ht (water column height, m)	>=	<=		
<input type="checkbox"/> wind_to_direction (degree)	>=	<=		
<input type="checkbox"/> lon360 (longitude, degree_east)	>=	<=		

**Server-side Functions**

☐ distinct()

orderBy: ☐ platform\_code ☒ time

**File type:** ☒ GeoJSON - Download longitude,latitude,otherColumns data as a GeoJSON .json file. [more info](#)  
Just generate the URL: [http://osmc.noaa.gov/erddap/tabledap/OSMC\\_30day.html?platform\\_type%2Ctime%2Clat](http://osmc.noaa.gov/erddap/tabledap/OSMC_30day.html?platform_type%2Ctime%2Clat) [Documentation / Bypass this form](#)

**Submit:** (Please be patient. It may take a while to get the data.)

Options include: comma separated (.csv), MATLAB (.mat), PDF (.pdf), ASCII (.asc), HTML (.html), etc.








































7. Once you have entered the desired information and chosen the output file type, click “Submit” to receive the data, or you can generate a URL that saves the specified variables. The URL can be used to reference the dataset parameters at a later date, and/or can be shared with colleagues.



## ERDDAP > tabledap > Data Access Form

Dataset Title: **OSMC 30 day RT data**  [N335](#)


Institution: OSMC (Dataset ID: OSMC\_30day)

Information: [Summary](#) | [License](#) | [FGDC](#) | [ISO 19115](#) | [Metadata](#) | [Background](#) | [Subset](#) | [Make a graph](#)

Variable 	Optional Constraint #1 	Optional Constraint #2 	Minimum  or a List of Values 	Maximum 
<input type="checkbox"/> platform_code (WMO id or Ship call sign) 	<input type="text" value="3200699   4601615   220"/>	<input type="text" value=""/>		
<input checked="" type="checkbox"/> platform_type 	<input type="text" value="DRIFTING BUOYS (GENER"/>	<input type="text" value=""/>	<input type="text" value="DRIFTING BUOYS (GENERIC)"/>	
<input type="checkbox"/> country 	<input type="text" value=""/>	<input type="text" value=""/>		
<input checked="" type="checkbox"/> time (observation date, UTC) 	<input type="text" value="2017-08-01"/>	<input type="text" value="2017-08-24"/>		
<input checked="" type="checkbox"/> latitude (degrees_north) 	<input type="text" value="-60"/>	<input type="text" value="75"/>	-89.0	89.0
<input checked="" type="checkbox"/> longitude (degrees_east) 	<input type="text" value="-180"/>	<input type="text" value="180"/>	-180.0	180.0
<input type="checkbox"/> observation_depth 	<input type="text" value=""/>	<input type="text" value=""/>		
<input checked="" type="checkbox"/> sst (sea surface temperature, Deg C) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> atmp (air temperature, Deg C) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> precip (precipitation, mm) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> ztmp (profile water temperature, Deg C) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> zsal (profile salinity) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input checked="" type="checkbox"/> slp (sea level pressure, hPa) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> windsdpd (wind speed, m/s) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> winddir (wind from direction, Deg true) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> wvht (sea surface wave significant height, m) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> waterlevel (m) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> clouds (cloud cover, oktas) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> dewpoint (dew point temperature, Deg C) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> uo (eastward sea water velocity, m s-1) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> vo (northward sea water velocity, m s-1) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> wo (upward sea water velocity, m s-1) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> rainfall_rate (m s-1) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> hur (relative humidity) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> sea_water_elec_conductivity (S m-1) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> sea_water_pressure (dbar) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> rlds (surface downwelling longwave flux in air, W m-2) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> rsds (surface downwelling shortwave flux in air, W m-2) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> waterlevel_met_res (meteorological residual tidal elevation, m) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> waterlevel_wrt_lcd (tidal elevation WRT local chart datum, m) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> water_col_ht (water column height, m) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> wind_to_direction (degree) 	<input type="text" value=""/>	<input type="text" value=""/>		
<input type="checkbox"/> lon360 (longitude, degree_east) 	<input type="text" value=""/>	<input type="text" value=""/>		

**Server-side Functions **  
☐ distinct() 

orderBy  time

File type:  - View an ERDDAP-style HTML Data Access Form. [more info](#)  
Just generate the URL: [http://osmc.noaa.gov/erddap/tabledap/OSMC\\_30day.html?platform\\_type%2Ctime%2C&lat](http://osmc.noaa.gov/erddap/tabledap/OSMC_30day.html?platform_type%2Ctime%2C&lat) [Documentation / Bypass this form](#) 

Submit (Please be patient. It may take a while to get the data.)